

P/N: 63501-0201

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to exportquestions@flir.com with any questions.



Imaging and optical data	
IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	< 30 mK @ +30°C (+86°F)
Field of view (FOV) / minimum focus distance	51° × 38° / NA fixed focus. See DOF
Depth of field	0.84 m to infinity (33 in. to infinity)
Spatial resolution (IFOV)	2.8 mrad
F-number	1.25
Image frequency	60 Hz
Focus	Fixed
Zoom	2× digital zoom
Detector data	
Focal plane array (FPA) / spectral range	Uncooled microbolometer / 7.5–13 μm
Image presentation	
Display	4 in. LCD, 320 × 240 pixels, backlit
Auto range	Yes, mode dependent. Configurable through FLIR Tools software

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Image presentation modes	
Image modes	- IR image - Basic Mode - Black and white fire fighting mode - Fire mode - Search and rescue mode - Heat detection mode - Thumbnail gallery
Infrared image	IR image, presentation mode dependent. Configurable through FLIR Tools SW
Measurement	
Object temperature range	-20°C to +150°C (-4°F to +302°F) 0°C to +650°C (+32°F to +1202°F)
Accuracy	±4°C (±7.2°F) or ±4% of reading, for ambient temperature 10°C to 35°C (+50°F to 95°F)
Measurement analysis	
Spotmeter	1
Automatic hot detection	Heat detection mode (the hottest 20% of the of scene is colorized)
Isotherm	Yes.
Set-up	
Set-up commands	Local adaptation of units, date and time formats
Languages	English
Storage of images	
Image storage	Standard JPEG
Storage media	Internal Flash memory
Image storage capacity	200
Image storage mode	IR only
File formats	Standard JPEG
Image annotations	
Report generation	Separate PC software
Video streaming	
Non-radiometric IR video streaming	Uncompressed colorized video using USB
Data communication interfaces	
Interfaces	USB-mini
USB	
USB	USB Mini-B: Data transfer to and from PC / uncompressed colorized video
Power system	
Battery	Li Ion
Battery capacity	4.4 Ah, at +20°C to +25°C (+68°F to +77°F)
Battery operating time	Approx. 4 hours at +25°C (+77°F) ambient temperature and typical use
Charging system	2-bay charger or optional In-truck charger



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Power system	
Charging time	2 h to 85% capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
Power management	Automatic shutdown and sleep mode
Start-up time from sleep mode	< 4 s.
Start-up time	< 17 s. (IR image, no GUI)
Environmental data	
Operating temperature range	• -20°C to +85°C (-4°F to +185°F) • +150°C (+302°F): 15 min. • +260°C (+500°F): 5 min.
Storage temperature range	-40°C to +85°C (-40°F to +185°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
Relative humidity	Max. 95% relative humidity +25°C to +40°C (+77°F to +104°F) non condensing
Directives	• Vibration • Impact acceleration resistance • Corrosion • Viewing surface abrasion • Heat resistance • Heat and flame • Product label durability
EMC	• EN 61000-6-2:2005 (Immunity) • EN 61000-6-3: 2011 (Emission) • FCC 47 CFR Part 15 B (Emission)
Magnetic fields	EN 61 000-4-8, Test level 5 for continuous field (severe industrial environment)
Encapsulation	IP 67 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Drop	2 m (6.6 ft.) on concrete floor (IEC 60068-2-31)
Safety	CE/EN/UL/CSA/PSE 60950-1
Physical data	
Camera weight, incl. battery	1.1 kg ± 0.05 kg (2.4 ± 0.1 lb.)
Battery weight	0.152 kg (0.3 lb.)
Camera size (L × W × H)	120 × 125 × 280 mm (4.7 × 4.9 × 11 in.)
Tripod mounting	UNC ¼"-20 (adapter needed)
Material	• PPSU • Silicon rubber • Aluminium, casted • Thixomold magnesium



FLIR K50

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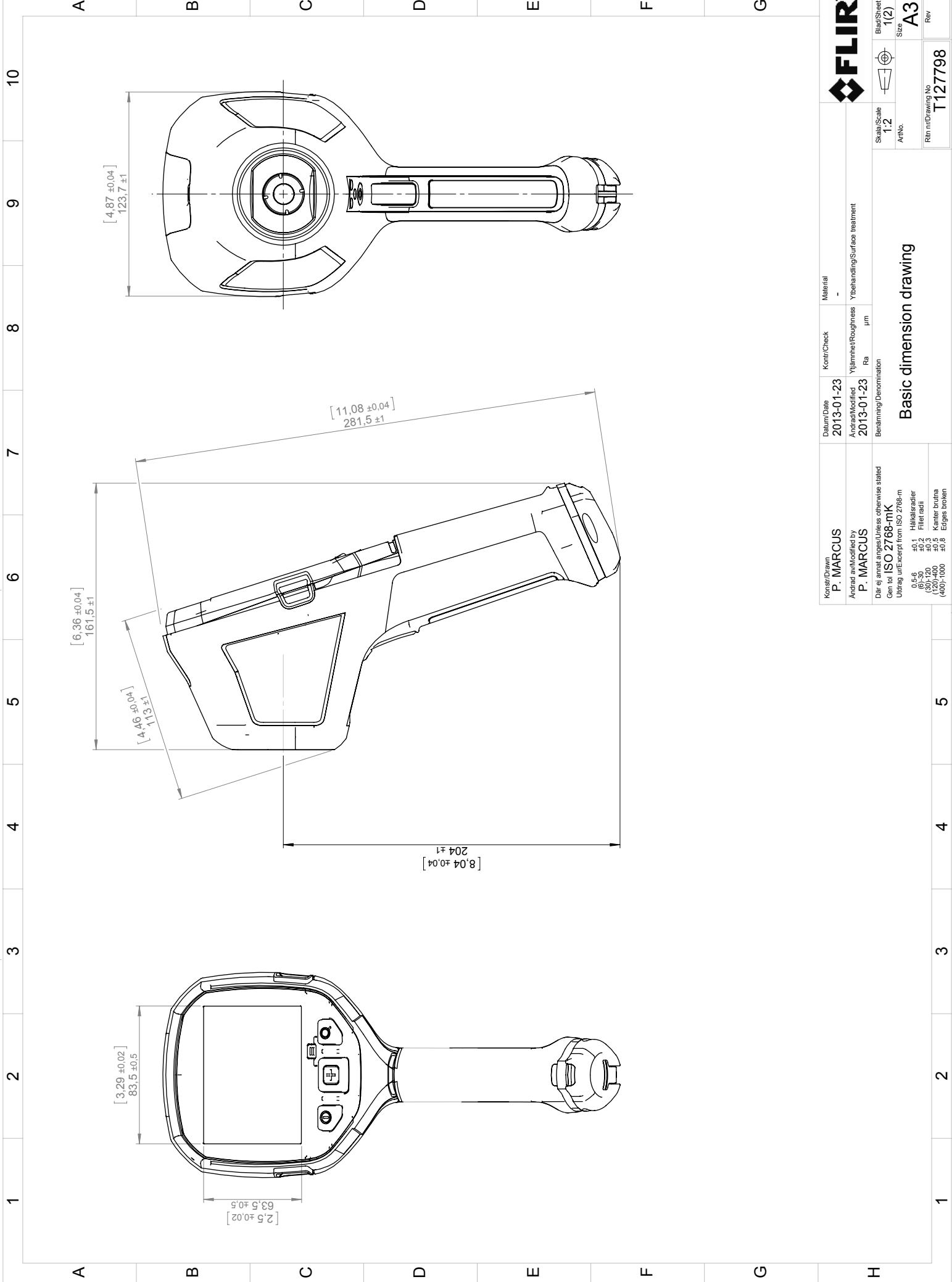
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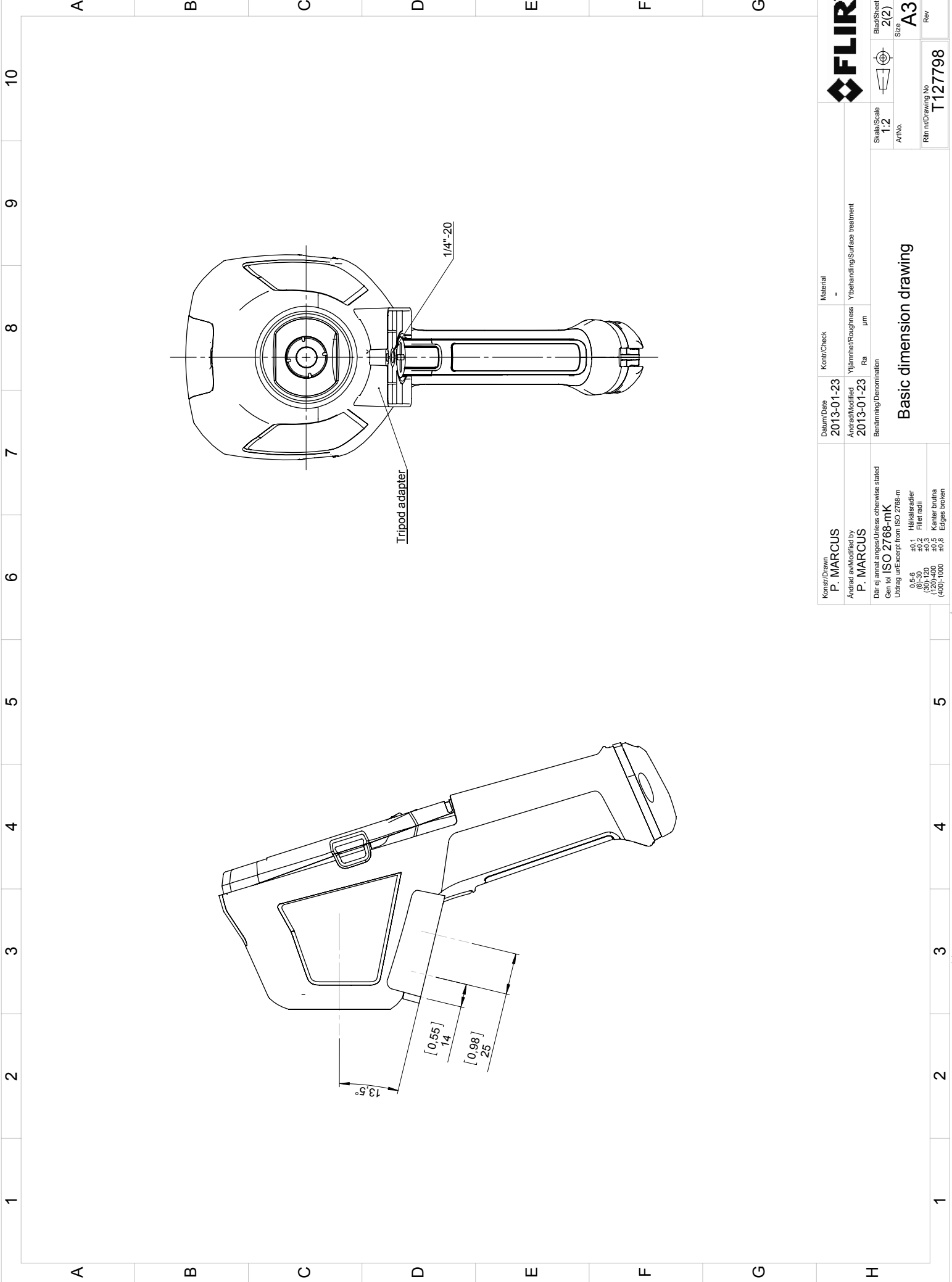
Shipping information	
List of contents	• Infrared camera • Battery (2 ea.) • Battery charger • Hard transport case • Lanyard strap • Neck strap • Power supply • Printed documentation • Retractable lanyard • Tripod adapter • USB cable • User documentation CD-ROM
Packaging, weight	5.7 kg (12.6 lb.)
Packaging, size	500 × 190 × 370 mm (19.7 × 7.5 × 14.6 in.)
EAN-13	4743254000711
UPC-12	845188004156
Country of origin	Estonia

Supplies & accessories:

- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T198125; Battery charger, incl. power supply with multi plugs (Exx, Kxx)
- T198322; In-truck charger
- T198310ACC; Li-Ion Battery pack 3.6 V 16 Wh
- T127724ACC; Neck strap
- T127722ACC; Retractable lanyard
- T198416ACC; Strap lanyard
- T198457ACC; Tripod Adapter, Kxx
- T198441ACC; Transport case Kxx



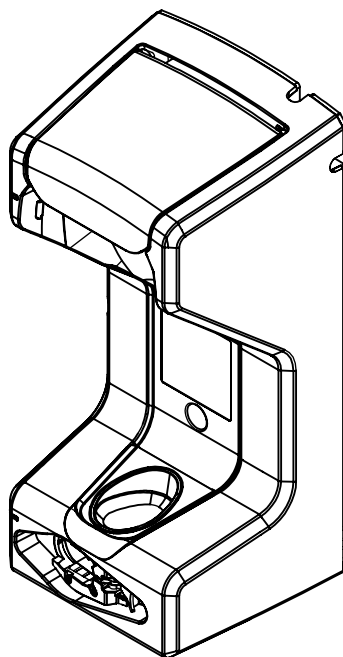
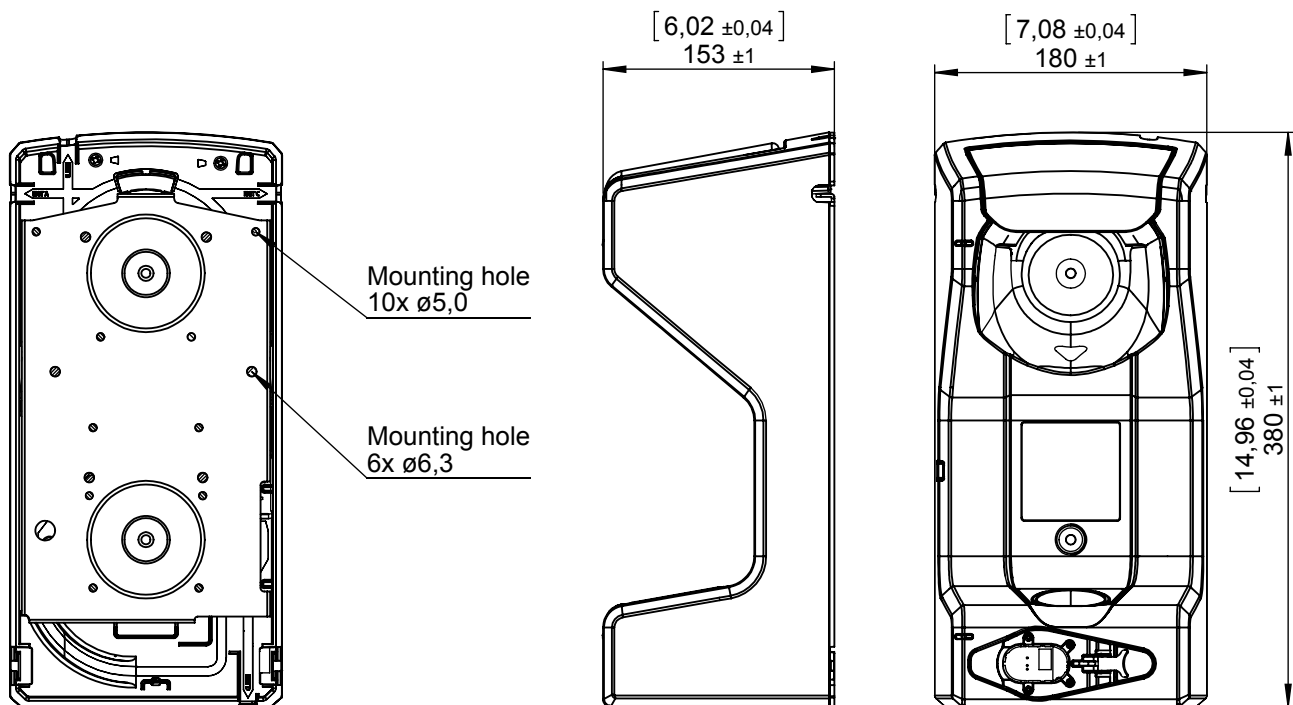
Konstr/Drawn		Datum/Date		Kontr/Check		Material	
P. MARCUS		2013-01-23				-	
Ändrad av/Modified by		Ändrad/Modified		Ytlämhet/Roughness		Ytbehandling/Surface treatment	
P. MARCUS		2013-01-23		Ra		µm	
Där ej annat anges/Unless otherwise stated		Benämning/Denomination					
Gen tol ISO 2768-mK							
Utmåg ut/except from ISO 2768-m							
0.5-6							
(6)-30							
0.1-0.3							
(30)-120							
40.5							
(120)-400							
40.8							
(400)-1000							



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Konstr/Drawn P. MARCUS		Datum/Date 2013-01-23	Kontroll/Check -	Material -	FLIR	
Ändrad av/Modified by P. MARCUS		Ändrad/Modified 2013-01-23	Ytjämnhet/Roughness Ra	Ytbehandling/Surface treatment µm	Basic dimension drawing	
Där ej annat anges/Unless otherwise stated Gen töl ISO 2768-mK Utdrag ur/Excerpt from ISO 2768-m		Benämning/Denomination		Skala/Scale 1:2	Blad/Sheet 2(2)	Size A3
0.5-6 ±0.1 Hållarsradier (6)-30 ±0.2 Fillet radii (120)-400 ±0.5 Kanter brutna (400)-1000 ±0.8 Edges broken		Ritning/Drawing No T127798		ÄrNo.	Rev	



Konstr/Drawn P. MARCUS	Datum/Date 2013-04-08	Kontr/Check MABR	Material			
Ändrad av/Modified by P. MARCUS	Ändrad/Modified 2013-04-08	Ytjämnhet/Roughness Ra μm	Ytbehandling/Surface treatment			
Där ej annat anges/Unless otherwise stated Gen tol ISO 2768-mK Utdrag ur/Excerpt from ISO 2768-m		Benämning/Denomination Basic dimensions In-truck charger		Skala/Scale 1:5		Blad/Sheet 1(1)
0,5-6 ±0,1 Hålkälsradier (6)-30 ±0,2 Fillet radii (30)-120 ±0,3 (120)-400 ±0,5 Kanter brutna (400)-1000 ±0,8 Edges broken				Art.No.		Size A4
				Ritnr nr/Drawing No T127865		Rev A



The World's Sixth Sense™

January 11, 2017 Täby, Sweden

AQ320212

CE Declaration of Conformity – EU Declaration of Conformity

Product: FLIR KXX series

Name and address of the manufacturer:

FLIR Systems AB

PO Box 7376

SE-187 15 Täby, Sweden

This declaration of conformity is issued under the sole responsibility of the manufacturer.

The object of the declaration: FLIR KXX series

The object of the declaration described above is in conformity with the relevant Union harmonisation legislation:

Directives:

Directive	2014/30/EU	Electromagnetic Compatibility
Directive	2014/35/EU	Low Voltage Directive (Power Supply)
Directive	2012/19/EU	Waste electrical and electric equipment

Standards:

Emission	EN 61000-6-3:2007+A1:2011	Electromagnetic Compatibility Generic standards – Emission
Immunity	EN 61000-6-2:2005	Electromagnetic Compatibility Generic standards – Immunity
Safety (Power Supply)	IEC 60950-1:2005+A1	Information technology equipment - Safety

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Quality Assurance

Lea Dabiri

Quality Manager